

**Kursus****4 dage**

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**Sted**

Taastrup

Aarhus

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# Vue.js, Vuex & Router

*Kurset tager et grundigt og dybdegående kig på det fremadskridende Vue.js framework. Vue.js er kendt som det mest tilgængelige JavaScript Framework samtidig med at være produktiv og nem at vedligeholde.*

## Deltagerprofil

This course is intended for professional developers who are familiar with HTML and JavaScript 5 programming.

## Udbytte

- Vue.js architectural concepts
- Creating and testing Vue.js apps
- Essential JavaScript 202X for Vue.js
- Creating reusable components
- Declarative rendering
- Templates with interpolations and directives
- Conditional and list rendering
- Handling properties and events
- Working with forms
- Dynamic and Asynchronous components
- Debugging and Developer Tools
- Patterns
- Vue Routing and navigation



- Vue CLI
- Vuex state management

Aside: After Vue 3 is released, the new functionality will be mixed more and more with the topics, to reflect the most popular way problems are solved and to match current day popular practices.

## Indhold

### Introduction:

- What is Vue.js?
- Why Vue.js?

### Module 1: Language constructs for Vue.js

- EcmaScript 202X (JavaScript): The relevant features for Vue.js
- Class syntax
- Spread operator
- Arrow functions
- Object destructuring
- More...
- Option (future): TypeScript

### Module 2: Data binding

- Data to View: Content, Attributes.
- View to Data: Events changing data or calling - functions
- Styling: Class and Style attributes

### Module 3: Rendering

- Conditional Rendering
  - if
  - if-else
  - show
- List Rendering
  - Array
  - Object
  - Key

### Module 4: Adjusted values

- Filters
  - With and without parameters
  - Chaining
- Computed Values
- Watchers

### Module 5: Components

- Registration: Global vs Local
- Render
- Template
- Data

### Module 6: Multiple components

- Properties
  - Types, Required & Validation



- Default values
- Naming
- Custom Events

#### Module 7: Forms

- Event, key and other modifiers
- Input bindings
- v-model (2-way databinding)

#### Module 8: Vue CLI & Debugging

- Vue CLI
  - Advantages
  - Commands
- Vue DevTools
- Using the browser's DevTools
- VSCode debugging

#### Module 9: Router

- Static routing
- Dynamic routing
- Nested routes
- No match (like a 404)
- Passing props
- Lazy loading
- Named routes & views

#### Module 10: Slots

- Single
- Multiple
- Default value
- Scoping

#### Module 11: Dynamics

- Attributes
- Events
- Slots names
- Dynamic components
- Async components

#### Module 12: Lifecycle

- Creation, Destroying
- Mounting, Updating, Activation
- With mixins

#### Module 13: Patterns

- Error Boundaries
- Higher-Order Components
- Renderless Components
- Mixins
- Container Components

#### Module 14: Performance



- Lazy loading
- Functional Components
- v-once

#### Module 15: Render function and JSX

- Render() vs Template
- JSX vs HTML
- JSX vs JS

#### Module 16: Reactivity

- Issues with Arrays and Objects
- Deep insights

#### Module 17: Vue v3 (Future)

- Composition API
- Suspense
- Portals
- (whatever is added)

#### Module 18: Vuex

- Store
- Getters
- Mutations
- Actions
- Modules

#### Module 19: Vuex with Vue

- mapState, mapGetters, mapMutations
- Reactivity

#### Module 20: Animations

- State Transitions
- List Transitions

#### Module 21: Server Side Rendering

- Universal code
- Routes
- Data pre-fetching
- Client Side Hydration

#### Module 22: Router Advanced

- Programmatic navigation
- Navigation guards
- Transitions
- Data fetching

#### Module 23: Testing

- Unit Tests
- Storybook

#### Module 24: Maintainable Projects



- Best practices
- Code organisation

#### Appendix

- **Appendix 1: Vue Instance**
- Data
- Methods
- **Appendix 2: Custom Directives**
- **Appendix 3: Plugins**

## Form

This course will cover all major parts with over 200 examples and many exercises. The course will be held in English.

## Instructor



Rick is a senior consultant and trainer from The Netherlands. He has over 20 years of professional experience while working in small, large and fast growing organisations. His passion is simplicity, well-written code and team dynamics. He is specialised in front-end technologies and speaks regularly about these topics at international events.

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## Aktuelt online kursus

Online kurset "[Vue.js](#)" kunne også være interessant for dig.

## Har du faglige spørgsmål så kontakt



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